

2005 Year of Physics Open House at Jefferson Lab on Saturday, April 16

Bring the family, bring a friend and plan on spending the day with us! Take in the latest physics research and technology developments underway at Jefferson Lab.

The Open House is set for **Saturday, April 16, 2005, from 9 a.m. - 2 p.m.** rain or shine, is open to the public and is free. The Lab's last Open House was about 2 years ago.



Every major area of the facility will be open. In addition to the unique electron beam accelerator (located in a tunnel 25 feet underground), visitors will also be able to see two of the Lab's experimental halls (35 feet underground), the Free-Electron Laser Facility, Computer Center and the Test Lab where the components for JLab's accelerator as well as the Department of Energy's Spallation Neutron Source - being built in Oak Ridge, Tennessee - are assembled and tested. In every area, experts will be on hand to answer questions and provide information. The Lab's medical imaging endeavors will be on display. And, of course Lab staff will be giving the ever-popular Liquid Nitrogen Demonstration throughout the day.

Visitors - young and old - will be able to participate in many educational, hands-on activities provided by Jefferson Lab, government agencies and regional museums.

General Information

Visiting all exhibits, activities and open facilities could take 2-4 hours, depending on your interest levels and walking speed. Wear comfortable shoes, as there is plenty of walking. To tour the accelerator tunnel you must walk down and back up five flights of stairs. The accelerator tunnel is not handicap accessible - all other areas are accessible via elevators. JLab staff will be available to assist individuals requiring handicap access to various areas.

Public Parking

There will be no public parking available at Jefferson Lab. All visitors must park at the Canon parking lot and ride the special event bus to Jefferson Lab.

The free public parking for the Open House is located at the Canon Virginia parking lot - 12000 Canon Boulevard, Newport News, VA. Free special event buses will shuttle visitors continuously from the Canon parking lot to Jefferson Lab (about a minute bus ride) from 9:00 a. m. - 2:00 p. m. The last bus will depart the Canon parking for the Jefferson Lab Open House at 2:00 p. m. After 2:00 p. m. buses will only return visitors to the Canon parking lot. The entire Open House tour takes about two hours.

Handicap/Bus Parking

Handicap and group parking will be available on site at Jefferson Lab; contact Sarah Ingels, 269-7444, or Linda Ware, 269-7689 to make these parking arrangements.

Do You Know the Answers to the Following Questions?

Join us at the Jefferson Lab Open House to answer these and many more.

What is the speed of light?

What do we use to steer the electron beam?

What is it called when electricity can travel through a conductor without resistance?

How large is Jefferson Lab's accelerator tunnel?

From what element is Jefferson Lab's accelerating cavities made of?

What part of the atom does Jefferson Lab study?

What makes up the nucleus of an atom?

How many quarks are in a proton? A neutron?

What particles orbit the atom's nucleus?

How many atoms would it take to make the thickness of a human hair?

What is the temperature of liquid nitrogen? Liquid helium?

Why are cryogenics vital for the proper operation of Jefferson Lab's accelerator?

What does the acronym CEBAF stand for?

For further information please contact Sarah Ingels (269-7444), Linda Ware (269-7689) or Debbie Magaldi (269-5102).

Jefferson Lab is managed and operated for the U.S. Department of Energy's Office of Science by the Southeastern Universities Research Association, a consortium of 61 universities spread across the southeast.

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Jefferson Lab :: <http://www.jlab.org/openhouse/>



Jefferson Lab **OPEN HOUSE**

www.jlab.org/openhouse/

World Year of Physics 2005
Einstein in the 21st Century

Saturday
April 16, 2005

For info call 269-7444 – Open to the public – Free of charge